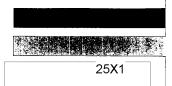
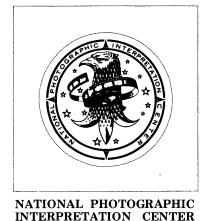
Top Secret





Basic Imagery Interpretation Report

DMITROV MISSILE PROPULSION RESEARCH AND DEVELOPMENT FACILITY (S)

25X1

STRATEGIC WEAPONS INDUSTRIAL FACILITIES
USSR
MAY 1979

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| SAC. USATC, Series 200, Sheet 0154-23, scale 1:200,000 Altsi IMAGERI VISTOR ABSTRACT 1. (TSR) This report describes developments observed at Dmitrov Missile Propulsion Research and Development Pacility, USSR, from the information cutoff date. Significant expansion of the facility indicates that missile propulsion system design, development, and testing is not only continuing but that additional work on new or modified missile systems/subsystems is planned. The identification of SA-5 missile canisters, SA-5 missile support equipment, and associated electronics wans at the facility and indicates that the Dmitrov Pacility is involved in making improvements to surface-to-air missile systems. This report udates NPIC report 2. (U) Included in this report are a location map, three annotated photographs, and three tables of mensural and chronological data. INTRODUCTION 3. (TSR) Dmitrov Missile Propulsion Research and Development Facility is on the east side of the Moscow Canal, 24 nautical miles (nm) west of the Zagorsk Rocket Engine Test Facility Krasnozavodsk Ind approximately 40 mm north of downtown Moscow (Figure 1). The Dmitrov Facility is served by the Moscow/Dmitrov/Leningrad rail line and is probably associated with a number of missile research, development, and production plants in the Moscow and Leningrad areas. 4. (TSR) The variety of test positions and a high percentage of administration and engineer ing floorspace at Dmitrov indicate that the facility may include a missile propulsion design bureau or scientific research institute. The facility is primarily involved in the developmental testing of small rocket engine propulsion systems. The eight test positions and the facility are contained in two test buildings. The positions are small and may be limited to the testing of vernier engines for missile extince decupiement at the facility. The timing of the completion of the test area gives the facility and proposition involved in the development and testing of modifications and product improvements | Dmitrov Missile Propulsion Research and Development Facility NA Society Society | | | Top Secret | RUFF | | | 25X1 25X | |
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| Top Secret RUFF | 2 |
| | |
| BASIC DESCRIPTION | |
| 6. (TSR) The Dmitrov Missile Propulsion Research and Development Facility has been expanded at an average rate of about 8 percent per year for a total increase in completed floor-space of 36 percent since the previous reporting period (see inset tables on Figures 1, 2, and 3). This rate of expansion indicates that plans are probably underway to design, develop, and test additional new and modified propulsion systems at this facility. The additions may also reflect special requirements of a variety of other missile-associated test programs. The completion dates (see inset tables) for significant additions to the facility may be an indication of the approximate starting dates for developmental testing of new or modified missile systems or components. | |
| 7. (TSR) The Dmitrov Missile Propulsion Research and Development Facility comprises three functional areas: a test area, a storage area, and an administration/engineering area. During the reporting period, 16,099 square meters of new floorspace were completed and 436 square meters were razed. As of the facility contained 60,046 square meters of completed floorspace.* | 25 |
| Test Area | |
| 8. (TSR) Most of the new floorspace completed during the reporting period is in the test area (Figure 1). The control building (item 6) for test building 2 was externally complete when observed in June 1975. Since tests probably occurred at test building 2 as early as July 1973, the control building for test building 1 may have served both of the test buildings prior to mid-1975. | |
| 9. (TSR) A possible test building (item 4), constructed between July 1972 and May 1978, is 22 by 18 meters and has a circular structure in the center. The circular structure has a diameter of 7 meters and extends above the roof of the building. This building is near two small probable solid propellant storage buildings and two buildings served by overhead pipe galleries. It is not known whether the building will be involved in the testing of liquid or solid propellant propulsion systems. | |
| 10. (TSR) In addition to the control building and the possible test building with the circular structure in the center, another possible test building (item 110), two engineering/shop buildings (items 108 and 109), and one support building (item 111) were completed. A total of 5,960 square meters of new floorspace was completed in the test area during this reporting period. The two new engineering/shop buildings accounted for most of this new floorspace. An unidentified structure (item 2), thought to be a building under construction in the previous reporting period, remained unchanged. | |
| 11. (TSR) A possible missile-associated canister, was seen in the test area on Figure 1). It was near the largest of four barricaded probable solid propellant storage buildings. No other missile-associated components or equipment have been identified in the test area. However, the presence of SA-5 equipment in the administration/engineering area of the facility indicates an involvement in modifications to the SA-5 missile system. | 25 25 |
| 12. (TSR) The variety and relatively small size of the eight test positions at the facility imply that a number of low-thrust systems are being tested; these may include vernier engines, gas generators, or other small rocket engines or components. The presence of a blower house and an effluent treatment system indicate that the facility has the capability to use toxic propellants. Extensive overhead pipe galleries indicate that the facility is primarily involved in the design and testing of liquid propulsion systems, but the presence of four barricaded explosives storage buildings suggests an association with solid propellants as well. | |
| The identification of SA-5 equipment in the administration/engineering area in September 1974 strongly suggests that the facility is involved in modifications to the two-stage SA-5 (GAMMON) missile system. The SA-5 sustainer engine employs a liquid, bipropellant propulsion system probably using inhibited red fuming nitric acid (IRFNA) for the oxidizer and unsymmetrical dimethylhydrazine (UDMH) or an amine combination with IRFNA for the fuel. The SA-5 propulsion system also includes four strap-on boosters which are filled with solid double-base propellant grain. An effort is probably underway at the Dmitrov Facility to increase the performance of the SA-5 missile propulsion system. | 25 |
| | 25 |
| The timing of the completion of the eight test positions at the Dmitrov Facility correlates to the collateral information concerning the development of a new version of the SA-5 missile in the early 1970s. | 25 |
| *In the previous report, the total floorspace figure included floorspace under construction. | |

| Top | Secret | RUFF |
|-----|--------|------|
|-----|--------|------|

| | | Dimensions | | | Floorspace | Firs | t Seen | |
|------|----------------|------------|-----|----|------------|--------|----------|---|
| Item | Description | | (m) | | (sq m) | Ucon | Complete | Remarks |
| | | L | W | Н | | | | |
| 1 | Support bldg | 22 | 14 | 8 | 308 | Sep 63 | Jun 75 | |
| 2 | Unid structure | 109 | 75 | _ | _ | Jul 68 | _ | Structure has 3 walls & no roof; in previous report," it was thought to be bldg ucon |
| 4 | Poss test bldg | 22 | 18 | 5 | 396 | Jul 72 | May 78 | Circular structure 7 meters in diam in center of rectangular bldg |
| 6 | Control bldg | 19 | 16 | 9 | 304 | Jan 72 | Jun 75 | 5 5 |
| 108 | Engr/shop bldg | 37 | 14 | 8 | 518 | Sep 76 | Jul 77 | |
| 109 | Engr/shop bldg | 48 | 28 | 17 | 4,032 | Jun 75 | Jul 77 | 3-story, H-shaped bldg |
| 110 | Poss test bldg | 34 | 9 | _ | 306 | Sep 74 | May 78 | Served by overhead pipe gallery |
| 111 | Support bidg | 12 | 8 | | 96 | May 78 | May 78 | |



25X1

| Ton | Secret | RUE | |
|-----|--------|------|--|
| 100 | Jeciel | 1101 | |

Storage Area

14. (TSR) The storage area (Figure 2) is the oldest area of the facility. Expansion of the storage area during this reporting period included the construction of six new metal storage buildings (items 112 through 117) and two wooden support sheds (items 118 and 119). These buildings added 1,800 square meters of new storage floorspace. A number of unidentified objects have been observed in the storage area, but none have been associated with any particular missile-associated test article.

| Administration/Engineering Area | |
|---|--------------|
| 15. (TSR) Additions to the administration/engineering area (Figure 3) during the reporting period included the completion of a fabrication/engineering building (item 48) and a probable administration building (item 66); construction on both buildings was begun during the previous reporting period. Three new storage buildings (items 121, 122, and 123) and a garage (item 124) were constructed and a metal storage shed was replaced by a wooden building (item 125) next to two parabolic dish antennas. A probable building foundation (item 120) was first observed in July 1977, but no progress was noted after that time. A total of 8,339 square meters of completed floorspace has been added to the administration/engineering area since In addition, three apartment buildings and a probable school, totalling 14,576 square meters of floorspace, were constructed outside the fence-secured administration/engineering area. | 25X1 |
| 16. (TSR) The major function of the administration/engineering area is probably the design and development of missile propulsion systems. The administration/engineering area also has a limited fabrication/assembly capability. During the current reporting period, testing of the SA-5 missile or its guidance package in a simulated electronic-counter-measure (ECM) environment was probably conducted in this area. | |
| 17. (TSR) The presence of SA-5 canisters, launchers, handling dollies, and canvas-covered probable missile transporters in a wall-secured missile support equipment (MSE) storage yard within the administration/engineering area suggests that compatibility testing of the SA-5 missile with SA-5 MSE has been accomplished in this area. A section of rail line in the MSE yard simulates dolly rails at SA-5 launch sites. Perhaps new designs or engineering changes in the SA-5 guidance package or propulsion system resulted in slight external changes to the missile, requiring new checkout testing with the MSE. Evidence of external changes to the SA-5 missile was observed on imagery of On that date, two modified SA-5 canisters were identified for the first time at a deployed SA-5 complex, Tapa SAM Complex A 32-5 | 25X1 25X1 |
| The modified SA-5 canisters were long as compared to for the other 34 standard SA-5 canisters seen in the same storage area. | 25X1 |
| 18. In addition to possible physical changes to the SA-5 missile, system performance improvements have also been noted. The original SA-5 system, developed during the early 1960s, was a long-range SAM for use against aerodynamic vehicles, assessed to be capable of intercepts at a range of no more than 100 nm. However, telemetry acquired from SA-5 tests at the SSMTC in the early 1970s revealed intercepts at ranges of about 150 nm. ⁶ | 25X1 |
| | 25X1 |
| | |

- 4 -

| | | Dimensions | | | Floorspace | First Seen | | |
|------|--|------------|-----|---|------------|------------|----------|--|
| Item | Description | | (m) | | (sq m) | Ucon | Complete | |
| | ······································ | L | W | Н | | | | |
| 112 | Stor bldg | 33 | 11 | 6 | 363 | Sep 74 | Jun 75 | |
| 113 | Stor bldg | 30 | 11 | 5 | 330 | May 78 | Aug 78 | |
| 114 | Stor bldg | 21 | 7 | 4 | 147 | Jul 77 | Jul 77 | |
| 115 | Stor bldg | 21 | 7 | 4 | 147 | Sep 76 | Sep 76 | |
| 116 | Stor bldg | 21 | 7 | 4 | 147 | May 78 | Aug 78 | |
| 117 | Stor bldg | 30 | 11 | 6 | 330 | Aug 77 | Aug 77 | |
| 118 | Support shed | 12 | 7 | 4 | 84 | Jul 77 | Jul 77 | |
| 119 | Support shed | 21 | 12 | 4 | 252 | Nov 78 | Nov 78 | |

| 115 116 117 118 119 | Stor bldg Stor bldg Stor bldg Support shed Support shed | 21 21 30 12 21 | 7 7 11 7 12 | 4 4 6 4 4 | 147 147 330 84 252 | Sep 76 May 78 Aug 77 Jul 77 Nov 78 | Sep 76 Aug 78 Aug 77 Jul 77 Nov 78 | |
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- 5 -

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| | | Di | mensior | าร | Floorspace | First | Seen | |
|------------|-----------------------|-----|---------|----|------------|--------|----------|---|
| ltem | Description | (m) | | | (sq m) | Ucon | Complete | Remarks |
| | | L | W | н | | | | |
| 48 | Fab/engr bldg | | | | | Jul 72 | Jun 75 | |
| а | Engr sec | 48 | 16 | 12 | 2,304 | | | 3 stories |
| b | Fab sec | 31 | 19 | 10 | 589 | | | High bay in center |
| 66 | Prob admin bldg | 21 | 19 | 30 | 3,591 | Jun 74 | Jun 75 | 9 stories; fence previously around the bldg was removed |
| 120 | Prob bldg foundation | 61 | 12 | _ | _ | Jul 77 | | No progress since Jul 77 |
| 121 | Stor bidg | 30 | 12 | 4 | 353 | Jun 75 | Jun 75 | |
| 122 | Stor bldg | 34 | 10 | 5 | 340 | Jul 77 | Aug 77 | |
| | Stor bldg | 39 | 7 | 4 | 273 | Jul 77 | Aug 77 | |
| 123 | • | 49 | 9 | 5 | 441 | Sep 76 | Aug 78 | |
| 124 125 | Garage Wooden bldg | 32 | 14 | 4 | 448 | Jun 75 | Jun 75 | Replaced a metal stor shed (item 35 in previou report') |

25X1

REFERENCES

| IMAGERY | | |
|--|--------|-----------------------|
| (TSR) All relevant KEYHOLE imagery acquired from information cutoff date, was used in the preparation of this report. | the | 25 X 1 |
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| CIA/OWI. Cable 70771, Supplement to the Daily Weapons Intelligence Summary NR NIO-76, 10 Feb 76 (SECRET | (TOP | 25 X 1 |
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| | | 25 X 1 |
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| REQUIREMENT | | 1 |
| COMIREX J02 Project 290062DJ | | |
| (S) Comments and queries regarding this report are welcome. They may be directed to Strategic Forces Division, Imagery Exploitation Group, NPIC, | Soviet | 25X1 25X1 |

- 7 -

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